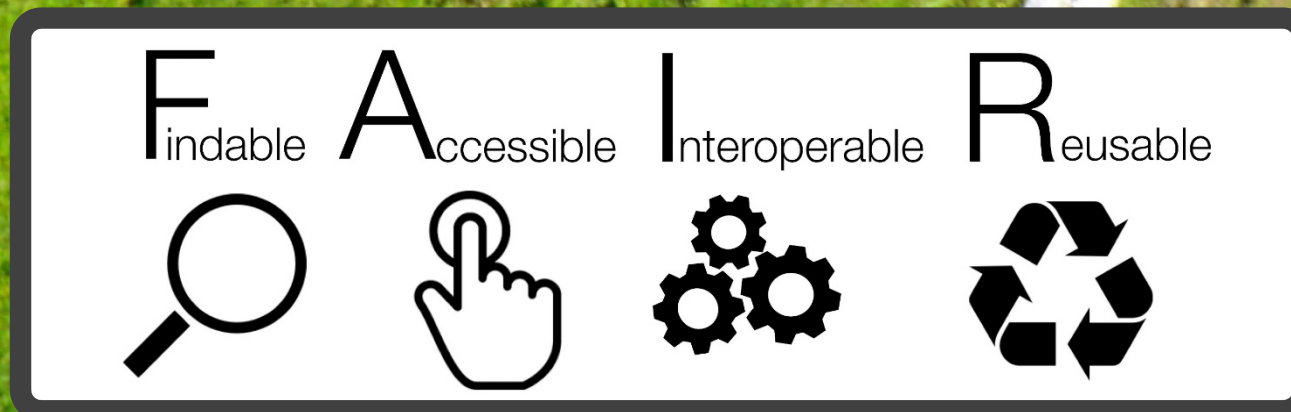


How FAIR is your data?

Self Assessment of Biodiversity Exploratories Data + Repository



FAIR Data Principles

To be Findable:

- F1.** (meta)data are assigned a globally unique and persistent identifier
- F2.** data are described with rich metadata (defined by R1 below)
- F3.** metadata clearly and explicitly include the identifier of the data it describes
- F4.** (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1.** (meta)data are retrievable by their identifier using a standardized communications protocol
 - A1.1** the protocol is open, free, and universally implementable
 - A1.2** the protocol allows for an authentication and authorization procedure, where necessary
- A2.** metadata are accessible, even when the data are no longer available

To be Interoperable:

- I1.** (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2.** (meta)data use vocabularies that follow FAIR principles
- I3.** (meta)data include qualified references to other (meta)data

To be Reusable:

- R1.** meta(data) are richly described with a plurality of accurate and relevant attributes
 - R1.1.** (meta)data are released with a clear and accessible data usage license
 - R1.2.** (meta)data are associated with detailed provenance
 - R1.3.** (meta)data meet domain-relevant community standards

Self-assessment

Findable

Does the dataset have any identifiers assigned?

Web address (URL)

Is the dataset identifier included in all metadata records/files describing the data?

No

How is the data described with metadata?

Comprehensively (see suggestion) using a recognised formal machine-readable me

What type of repository or registry is the metadata record in?

Domain-specific repository

Accessible

How accessible is the data?

Publicly accessible

Is the data available online without requiring specialised protocols or tools once access has been approved?

Standard web service API (e.g. OGC)

Will the metadata record be available even if the data is no longer available?

Yes

Interoperable

What (file) format(s) is the data available in?

In a structured, open standard, machine-readable format

What best describes the types of vocabularies/ontologies/tagging schemas used to define the data elements?

No standards have been applied in the description of data elements

How is the metadata linked to other data and metadata (to enhance context and clearly indicate relationships)?

There are no links to other metadata

Reusable

Which of the following best describes the license/usage rights attached to the data?

Standard text based license

How much provenance information has been captured to facilitate data reuse?

Partially recorded

Total across F.A.I.R

<https://doi.org/10.1038/sdata.2016.18>

Via ARDC FAIR Data self-assessment tool. <https://www.and-s-nectar-rds.org.au/fair-tool>

Who is self?

The Biodiversity Exploratories are a German Science Foundation funded research project (DFG Priority Programme 1374). It serves as open research platform for biodiversity and ecosystem research groups of Germany.

The Biodiversity Exploratories Information System (BExIS) is the online data repository and information system of the project.

The data is collected on plots in three German regions: Hainich, Schorfheide and Swabian Alb. Data from 2006 to 2014 is publicly available.

Public data link:



**biodiversity
exploratories**
functional biodiversity
research



Photo: Philipp Rauneker